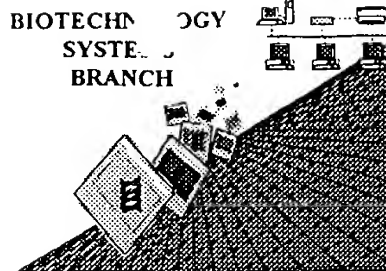# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/515, 369 A_

Source: _1633_

Date Processed by STIC: _7-5-01_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _09/515, 369A_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 ____ Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
   Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
                           prevent "wrapping."

2 ____ Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
   Numbering   use space characters, instead.

4 ____ Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
                           ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules,
                           each n or Xaa can only represent a single residue. Please present the maximum number of each
                           residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
   "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
                           previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
                           the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
                           Artificial or Unknown sequences.

7 ____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
   (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                           (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
                           (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                           This sequence is intentionally skipped

                           Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
   (NEW RULES)   <210> sequence id number
                           <400> sequence id number
                           000

9 ✓ Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
   (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
                           In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ____ Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
   Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
                          is Artificial Sequence

11 ____ Use of <220>   Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
                          Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
                          "Unknown." Please explain source of genetic material in <220> to <223> section.
                          (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 ____ PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
   "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
                          listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC – Biotechnology Systems Branch – 06/04/2001

1633

```
        RAW SEQUENCE LISTING          DATE: 07/05/2001
        PATENT APPLICATION:  US/09/515,369A    TIME: 12:54:49

        Input Set : A:\56778.txt
        Output Set: N:\CRF3\07032001\I515369A.raw
```

Does Not Comply
Corrected Diskette Needed

See p. 4

```
   3 <110> APPLICANT: Fisher, Paul
   4        Madireddi, Malavi
   6 <120> TITLE OF INVENTION: MELANOMA DIFFERENTATION ASSOCIATED GENE-7 PROMOTER AND USES
THEREOF
   8 <130> FILE REFERENCE: 0575/56778/JPW/APE
  10 <140> CURRENT APPLICATION NUMBER: 09/515,369A
  11 <141> CURRENT FILING DATE: 2000-02-29
  13 <160> NUMBER OF SEQ ID NOS: 13
  15 <170> SOFTWARE: PatentIn version 3.0
  17 <210> SEQ ID NO: 1
  18 <211> LENGTH: 2286
  19 <212> TYPE: DNA
  20 <213> ORGANISM: Human
  22 <400> SEQUENCE: 1
  23 taatacgact cactataggg cgtcgactcg atcacctttt gaacccaggt ctgcctgcct      60
  25 ccaaagcttg tactcataac tagattctca actgatgttg ggccaaggtt cctaggttct     120
  27 ctccttgacc ttccttctga agtaataatg ctatgataag ctcatcggag gctgaggccc     180
  29 aggcacatgt ttgcctgaac tatccatgtt atatgattcc ttcctcagac agagtgagct     240
  31 actcacgatc ccaggtgtac cctgaggcca gccaaggtgt atccatgacc tcatgcctct     300
  33 gttccagcct gccctttaac agctcatccc acctgcctgc cctccccgcc tatctgcaga     360
  35 cagtagtcta ggatttcagc tgccctgggg gctcattttc cctctcagct tcctgcttta     420
  37 gctgtctcct gcctcccact cacctattac tccagcactc tcacctggtc ttcttttctg     480
  39 tctcatcact gcctcttgac atctttatct catagtagtt agttaggggt tcttggtaat     540
  41 gccctaaatc cacatggtgg gaagggggga gtgggggaag agagtgcgct gtgggctgt      600
  43 gcctacttct ggagggtaag actcgggccc tccaggaaca aaggattcag gctggtggca     660
  45 gctatagcca agcagactgc tggccaggga ttgcaaagga gtatttgtt tgcttaagaa      720
  47 aataaacaac actgagtatg agatggaggg aggggtgtt ggtgccagag agattgggaa      780
  49 gagtctgcca agggtgtgtt ctactcactc tcctcttttc tttcatctcc actgagctgg     840
  51 aggcagttat cctgtccccc acgtcacatt cctactcccg tttcccatgc ctggacccag     900
  53 gttgggcaaa ctcttcctgt aaagaaccag acaggaacta ttttaggctc tgtgtgccat     960
  55 atggtctcag tcacaactac tcatctctgc ctctgtagca cgaaagcaat tagcaacaat    1020
  57 atgtcaacaa acatatgtga ccccatgaaa actttattta ttatggatac ggaaacctga    1080
  59 aaataatgtc tttcttttga ttttttcccc aatcattaaa aaacgtaaaa actactctta    1140
  61 ggtcgcaagg ttaagccatt ctcagcttag cagtggcagg ctggatttgg cttgtgacct    1200
  63 acagttggcc aatccctgat tcccaaaatg tattcctcag ggatgtgggc aaatacttat    1260
  65 gggaagtgct ggattaaaca gagttaagaa gcatcagaca tttccaggac gggctagcac    1320
  67 atgccagggc tctctaactg acctcattgg attcatctgt ttcatggagg atcttgcaag    1380
  69 acaagaattc ctcaaaccta gagtctgagg actgtgcttt gggaaacact gctctgcttg    1440
  71 atgccctcac tgggcacatg gtagaatcta gagctgagtg ccttgctagc tggagatagg    1500
  73 gtcagagctc ttgactgccc tggcagtctt gacacatcac gctgtctgtg tcccctgagt    1560
  75 ggttcagagc cacacaggcc aagactagcc caccagagca ccaggcctcc cagctttctg    1620
  77 ggcttgtcca tgcgtacatt tccttattct tcctggtttc cagaacctaa ggagaggcac    1680
  79 attttggttg agtgattata accctaggga ccatgggtag ctgcatgtca ggaaacactc    1740
  81 ctcaacttcc tggccctgat ggattaaagg agaggtactt acaggttatt tcttcgctgt    1800
  83 ggactactgt cccagcatga atagggcatc attattgaat tattttgaca ggaaggagac    1860
  85 tggtgtatgc tgcacagtaa taatgtattt acatgtgtac agagtttacc aagcacctct    1920
  87 gtgttgtttt tgcctttgtt tattacactt gggacaaatt tttaaaattt atacatgcag    1980
  89 agactgcagc gcagagaagc taagagactt gccctgcccc acacagccag tggtagagcc    2040
```

RAW SEQUENCE LISTING   DATE: 07/05/2001
PATENT APPLICATION: US/09/515,369A   TIME: 12:54:49

Input Set : A:\56778.txt
Output Set: N:\CRF3\07032001\I515369A.raw

```
 91 tgaactcaaa cccaggtctc atctcacctc aggggctgct ttccccatcg ctgtattgtc   2100
 93 cttaaagtga tgggtgacta ggcaatgaag taattctcta ggaaagcatg accaatttcc   2160
 95 ctttctccac ctccctcttt ttcctccacc cctccccat cagcccccat atatatgccc    2220
 97 aaatctccac aaagccttgc ttgcctgcaa acctttactt ctgaaatgac ttccacggct   2280
 99 gggacg                                                              2286
102 <210> SEQ ID NO: 2
103 <211> LENGTH: 21
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: ()..()
110 <223> OTHER INFORMATION: primer
113 <400> SEQUENCE: 2
114 cgtcccagcc gtggaagtca t                                               21
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 21
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: ()..()
125 <223> OTHER INFORMATION: primer
128 <400> SEQUENCE: 3
129 aggctggatt tggcttgtga c                                               21
132 <210> SEQ ID NO: 4
133 <211> LENGTH: 21
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: ()..()
140 <223> OTHER INFORMATION: primer
143 <400> SEQUENCE: 4
144 ctgtttaatc cagcacttcc c                                               21
147 <210> SEQ ID NO: 5
148 <211> LENGTH: 21
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: ()..()
155 <223> OTHER INFORMATION: primer
158 <400> SEQUENCE: 5
159 cgcttgatga ctcagccgga a                                               21
162 <210> SEQ ID NO: 6
163 <211> LENGTH: 20
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING   DATE: 07/05/2001
PATENT APPLICATION: US/09/515,369A   TIME: 12:54:49

Input Set : A:\56778.txt
Output Set: N:\CRF3\07032001\I515369A.raw

167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <222> LOCATION: ()..()
170 <223> OTHER INFORMATION: primer
173 <400> SEQUENCE: 6
174 tgcagattgc gcaatctgca   20
177 <210> SEQ ID NO: 7
178 <211> LENGTH: 21
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <221> NAME/KEY: misc_feature
184 <222> LOCATION: ()..()
185 <223> OTHER INFORMATION: primer
188 <400> SEQUENCE: 7
189 cgcttgatga cttggccgga a   21
192 <210> SEQ ID NO: 8
193 <211> LENGTH: 22
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <221> NAME/KEY: misc_feature
199 <222> LOCATION: ()..()
200 <223> OTHER INFORMATION: primer
203 <400> SEQUENCE: 8
204 tgcagagaga ctagtctctg ca   22
207 <210> SEQ ID NO: 9
208 <211> LENGTH: 61
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: ()..()
215 <223> OTHER INFORMATION: primer
218 <400> SEQUENCE: 9
219 uuguauuuau uacaacucua uuuaauuaau gucaguauuu caacugaagu ucuauuuauu   60
221 u   61
224 <210> SEQ ID NO: 10
225 <211> LENGTH: 15
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION: ()..()
232 <223> OTHER INFORMATION: primer
235 <400> SEQUENCE: 10
236 uauuuauuua uuuaa   15
239 <210> SEQ ID NO: 11
240 <211> LENGTH: 51

RAW SEQUENCE LISTING   DATE: 07/05/2001
PATENT APPLICATION: US/09/515,369A   TIME: 12:54:49

Input Set : A:\56778.txt
Output Set: N:\CRF3\07032001\I515369A.raw

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242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <221> NAME/KEY: misc_feature
246 <222> LOCATION: ()..()
247 <223> OTHER INFORMATION: primer
250 <400> SEQUENCE: 11
251 uaauauuuau auauuuauau uuuuaaaaua uuuauuuauu uauuuauuua a   51
254 <210> SEQ ID NO: 12
255 <211> LENGTH: 38
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <222> LOCATION: ()..()
262 <223> OTHER INFORMATION: primer
265 <400> SEQUENCE: 12
W--> 266 sunçauuauu uauuauuuau uuauuauuua uuuauuua   38
269 <210> SEQ ID NO: 13
270 <211> LENGTH: 56
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: ()..()
277 <223> OTHER INFORMATION: primer
280 <400> SEQUENCE: 13
281 guuuuuaauu uauuuauuaa gauggauucu cagauauuua uauuuuuauu uuauuu   56

[handwritten annotation] Sequence #12 is missing the mandatory <220> to <223> features to explain the "n" in the sequence. See #9 on the Error Summary Sheet.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/515,369A

DATE: 07/05/2001
TIME: 12:54:50

Input Set : A:\56778.txt
Output Set: N:\CRF3\07032001\I515369A.raw

L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12